#5

Plasmid: NFIF14B
Amino Acids: 453

MALVRALVCCLLTAWHCRSG 20

LGLPVAPAGGRNPPPAIGQF 40

WHVTDLHLDPTYHITDDHTK 60

VCASSKGANASNPGPFGDVL 80

CDSPYQLILSAFDFIKNSGQ 100

EASFMIWTGDSPPHVPVPEL 120

STDTVINVITNMTTTIQSLF 140

PNLQVFPALGNHDYWPQDQL 160

SVVTSKVYNAVANLWKPWLD 180

EEAISTLRKGGFYSQKVTTN 200

PNLRIISLNTNLYYGPNIMT 220

LNKTDPANQFEWLESTLNNS 240

QQNKEKVYIIAHVPVGYLPS 260

SQNITAMREYYNEKLIDIFQ 280

KYSDVIAGQFYGHTHRDSIM 300

VLSDKKGSPVNSLFVAPAVT 320

PVKSVLEKQTNNPGIRLFQY 340

DPRDYKLLDMLQYYLNLTEA 360

NLKGESIWKLEYILTQTYDI 380

EDLQPESLYGLAKQFTILDS 400

KQFIKYYNYFFVSYDSSVTC 420

DKTCKAFQICAIMNLDNISY 440

ADCLKQLYIKHNY 460

FIGURE 1

Plasmid: NFIF7A
Amino Acids: 364

MALVRALVCCLLTAWHCRSG 20

LGLPVAPAGGRNPPPAIGQF 40

WHVTDLHLDPTYHITDDHTK 60

VCASSKGANASNPGPFGDVL 80

CDSPYQLILSAFDFIKNSGQ 100

EASFMIWTGDSPPHVPVPEL 120

STDTVINVITNMTTTIQSLF 140

PNLQVFPALGNHDYWPQVYI 160

IAHVPVGYLPSSQNITAMRE 180

YYNEKLIDIFQKYSDVIAGQ 200

FYGHTHRDSIMVLSDKKGSP 220

VNSLFVAPAVTPVKSVLEKQ 240

TNNPGIRLFQYDPRDYKLLD 260

MLQYYLNLTEANLKGESIWK 280

LEYILTQTYDIEDLQPESLY 300

GLAKQFTILDSKQFIKYYNY 320

FFVSYDSSVTCDKTCKAFQI 340

CAIMNLDNISYADCLKQLYI 360

KHNY 380

FIGURE 2

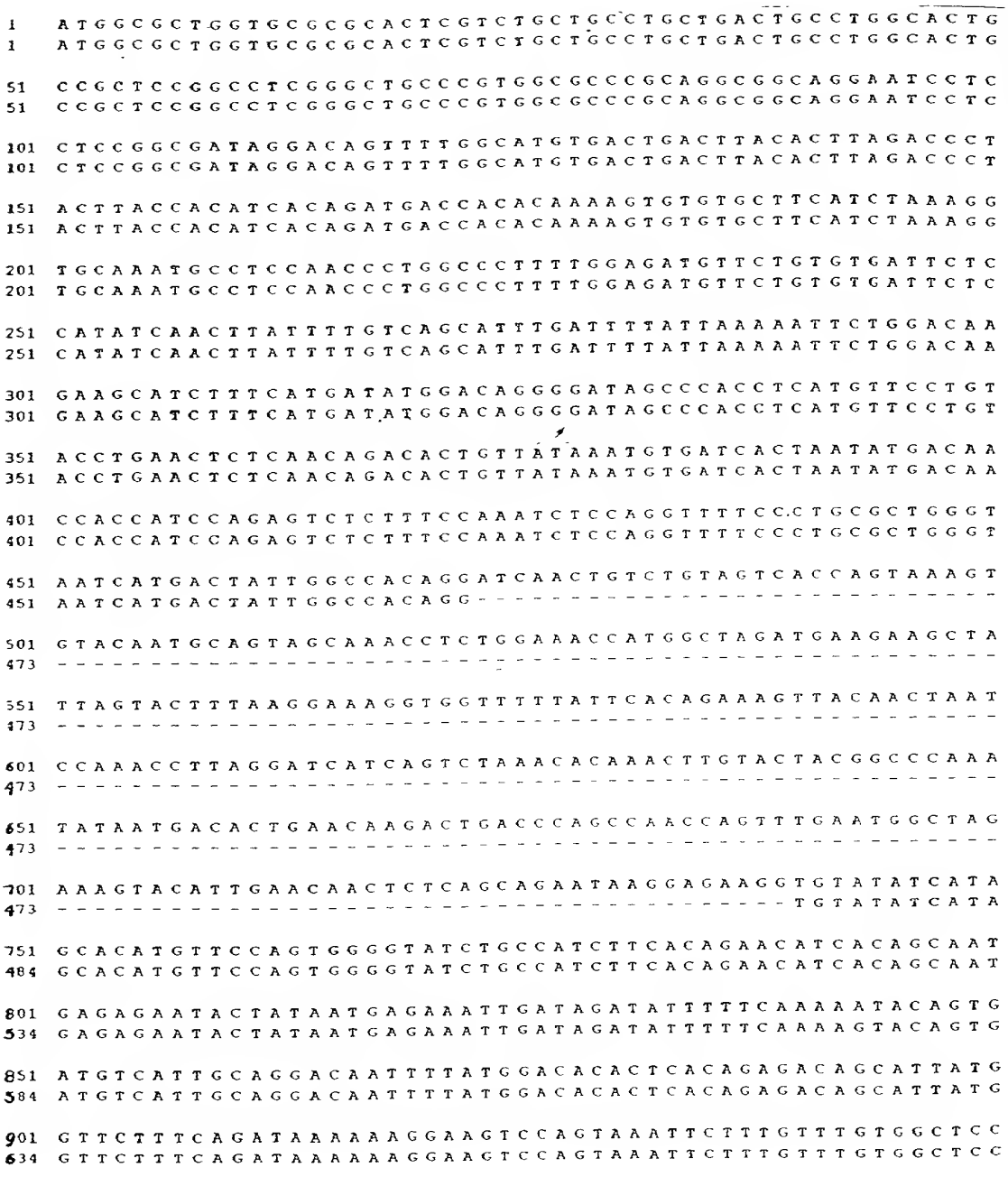

FIGURE 3

```
951  TGCTGTTACACCAGTGAAGAGTGTTTTAGAAAAACAGACCAACAATCCTG NFIF14B
684  TGCTGTTACACCAGTGAAGAGTGTTTTAGAAAAACAGACCAACAATCCTG NFIF7A

1001 GTATCAGACTGTTTCAGTATGATCCTCGTGATTATAAATTATTGGATATG NFIF14B
734  GTATCAGACTGTTTCAGTATGATCCTCGTGATTATAAATTATTGGATATG NFIF7A

1051 TTGCAGTATTACTTGAATCTGACAGAGGCGAAATCTAAAGGGAGAGTCCAT NFIF14B
784  TTGCAGTATTACTTGAATCTGACAGAGGCGAAATCTAAAGGGAGAGTCCAT NFIF7A

1101 CTGGAAGCTGGAGTATATCCTGACCCAGACCTACGACATTGAAGATTTGC NFIF14B
834  CTGGAAGCTGGAGTATATCCTGACCCAGACCTACGACATTGAAGATTTGC NFIF7A

1151 AGCCGGAAAGTTTATATGGATTAGCTAAACAATTTACAATCCTAGACAGT NFIF14B
884  AGCCGGAAAGTTTATATGGATTAGCTAAACAATTTACAATCCTAGACAGT NFIF7A

1201 AAGCAGTTTATAAAATACTACAATTACTTCTTTGTGAGTTATGACAGCAG NFIF14B
934  AAGCAGTTTATAAAATACTACAATTACTTCTTTGTGAGTTATGACAGCAG NFIF7A

1251 TGTAACATGTGATAAGACATGTAAGGCCTTTCAGATTTGTGCAATTATGA NFIF14B
984  TGTAACATGTGATAAGACATGTAAGGCCTTTCAGATTTGTGCAATTATGA NFIF7A

1301 ATCTTGATAATATTTCCTATGCAGATTGCCTCAAACAGCTTTATATAAAG NFIF14B
1034 ATCTTGATAATATTTCCTATGCAGATTGCCTCAAACAGCTTTATATAAAG NFIF7A

1351 CACAATTACTAG                                       NFIF14B
1084 CACAATTACTAG                                       NFIF7A
```

FIGURE 3 (CONT'D)

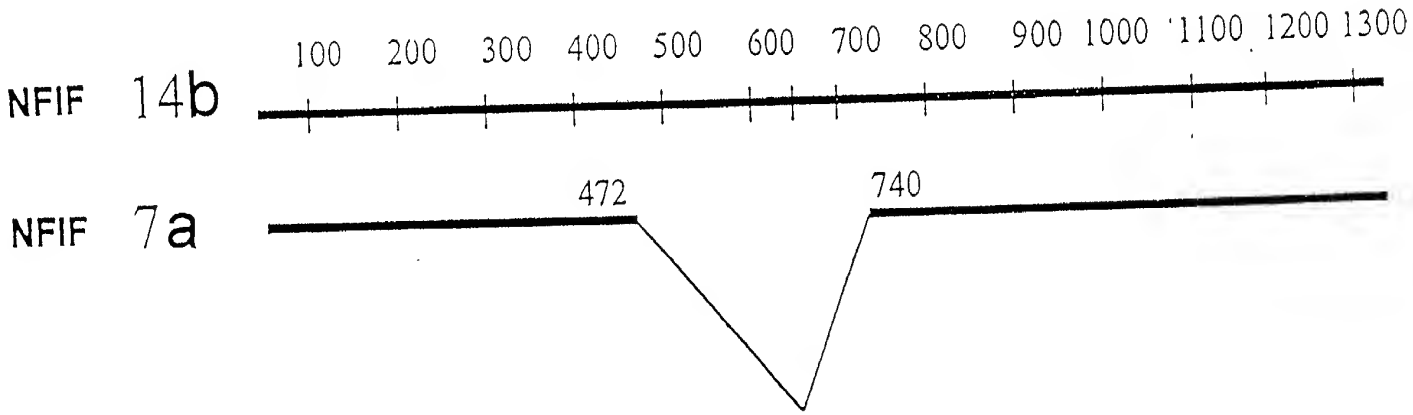

FIGURE 4

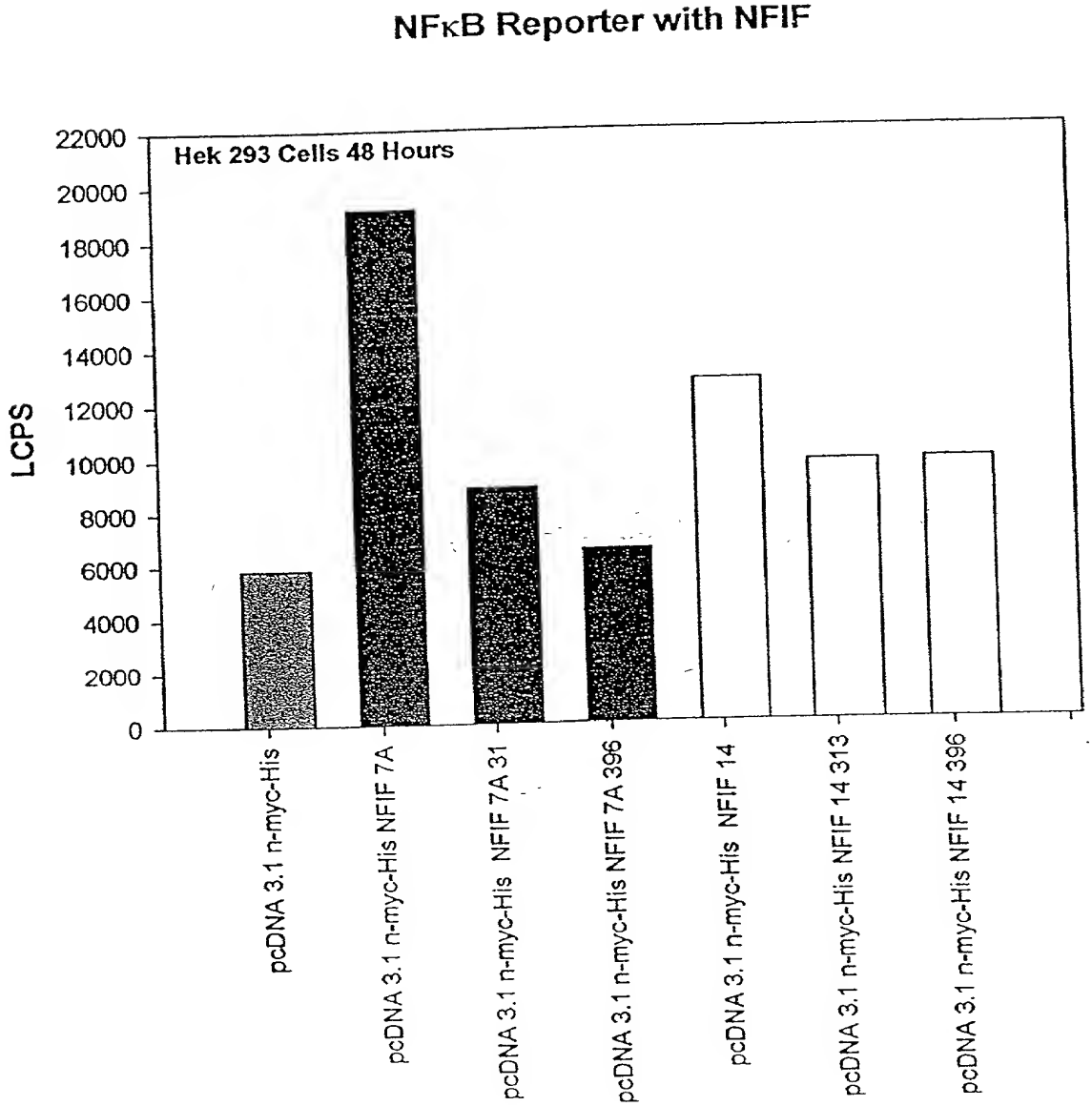
NFκB Reporter with NFIF
Hek 293 Cells 48 Hours
LCPS
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
pcDNA 3.1 n-myc-His
pcDNA 3.1 n-myc-His NFIF 7A
pcDNA 3.1 n-myc-His NFIF 7A 31
pcDNA 3.1 n-myc-His NFIF 7A 396
pcDNA 3.1 n-myc-His NFIF 14
pcDNA 3.1 n-myc-His NFIF 14 313
pcDNA 3.1 n-myc-His NFIF 14 396

FIGURE 5

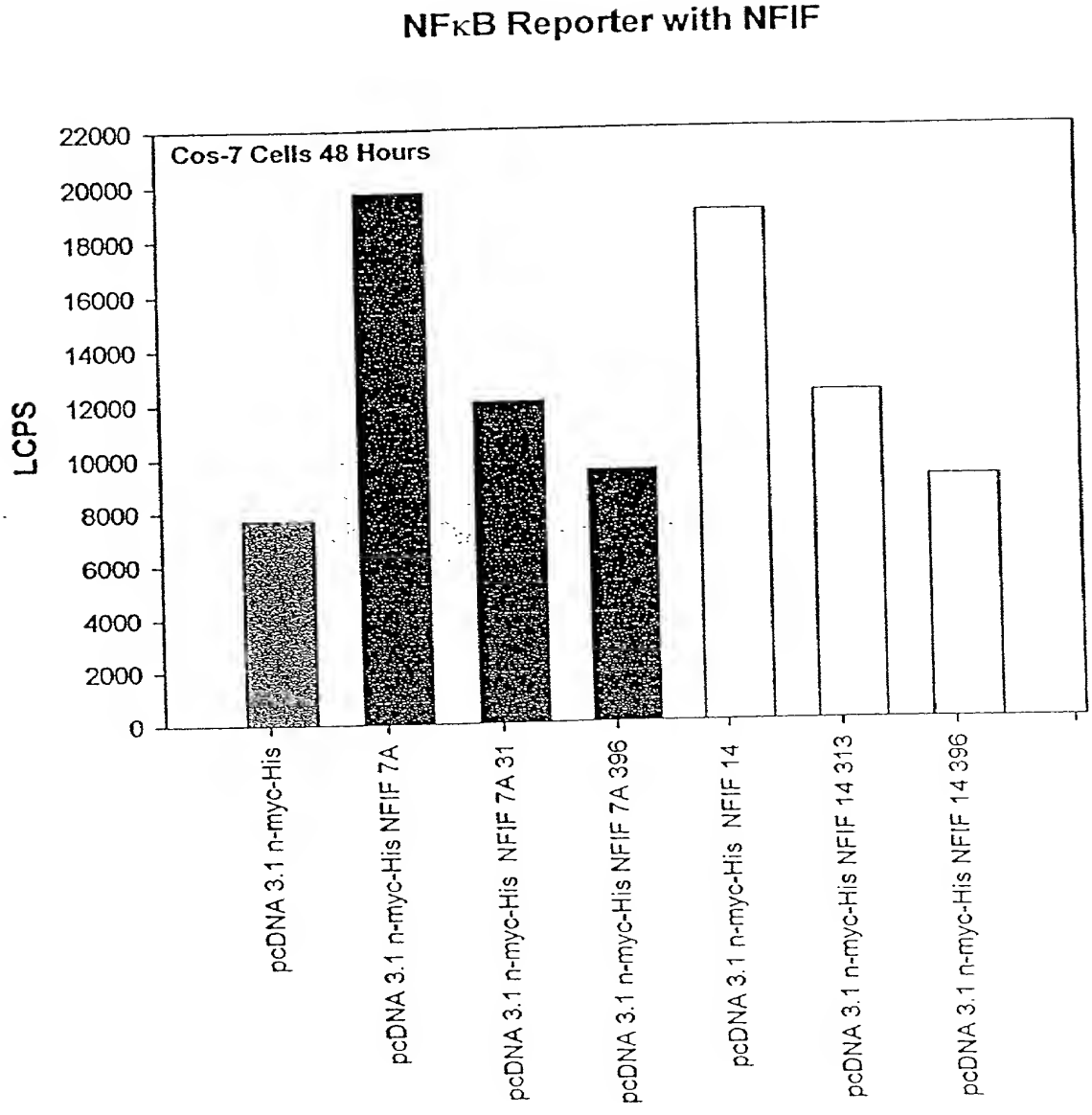
NFκB Reporter with NFIF
Cos-7 Cells 48 Hours
LCPS
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
pcDNA 3.1 n-myc-His
pcDNA 3.1 n-myc-His NFIF 7A
pcDNA 3.1 n-myc-His NFIF 7A 31
pcDNA 3.1 n-myc-His NFIF 7A 396
pcDNA 3.1 n-myc-His NFIF 14
pcDNA 3.1 n-myc-His NFIF 14 313
pcDNA 3.1 n-myc-His NFIF 14 396

FIGURE 6

SKGANASNPGPFGDV

FIGURE 7

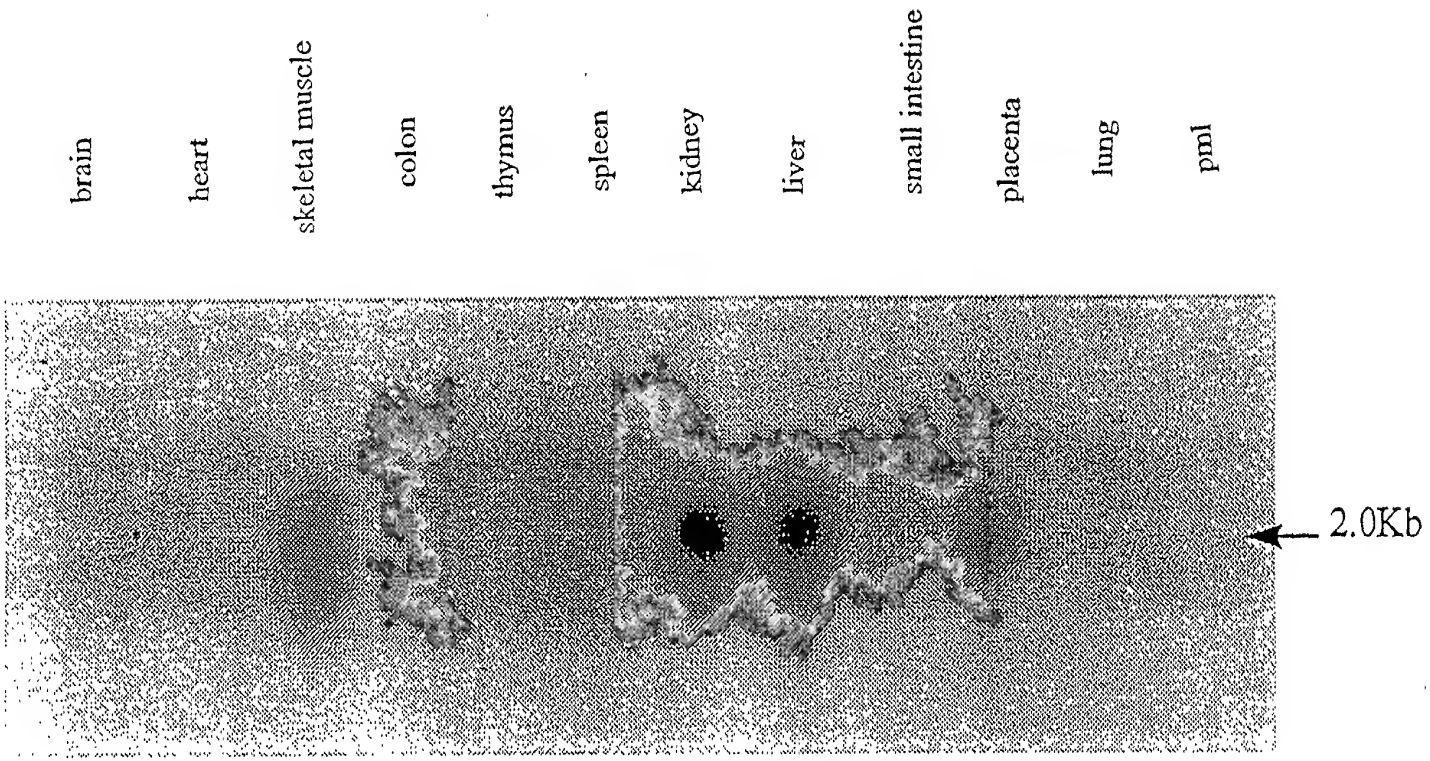
brain
heart
skeletal muscle
colon
thymus
spleen
kidney
liver
small intestine
placenta
lung
pml
2.0Kb

FIGURE 8